ROKSAN

Caspian

M SERIES - 1

Integrated CD Player

USER MANUAL

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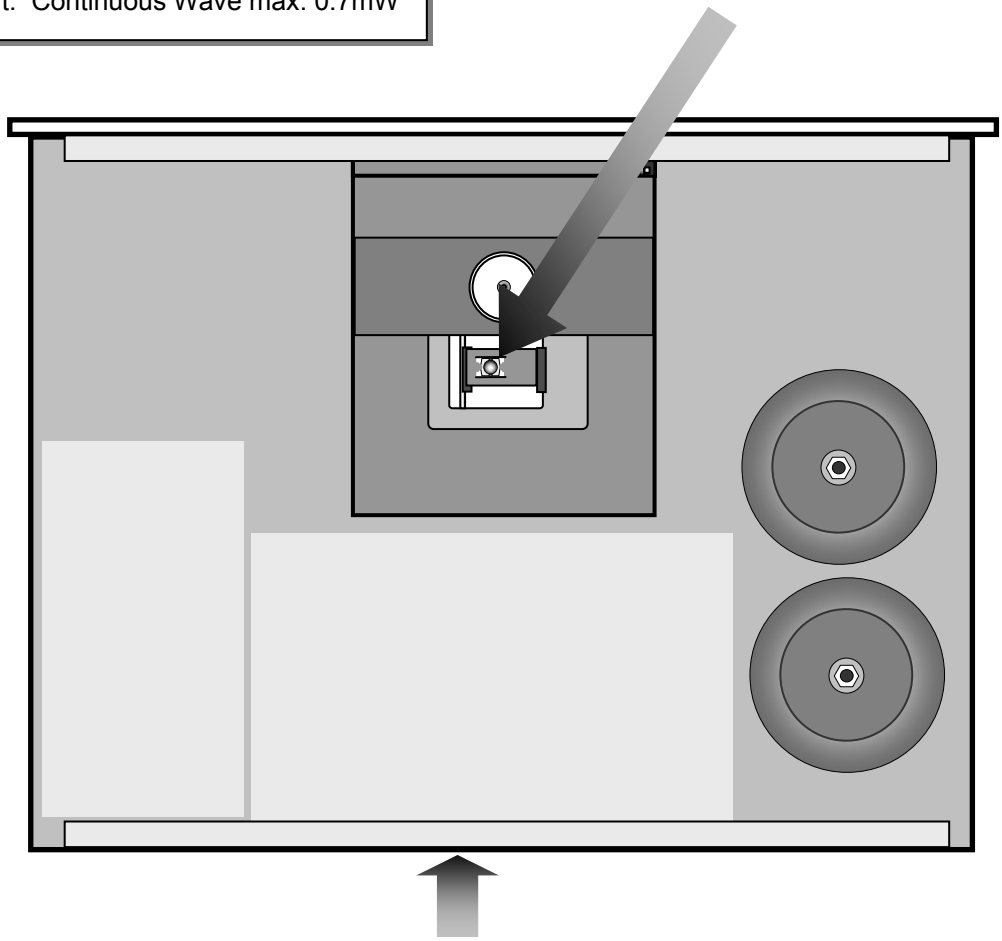
LASER SAFETY

This unit employs a laser. Only qualified persons should remove the cover or attempt to service this unit due to the risk of eye injury.

CAUTION	INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
VORSICHT!	UNSICHTBARE LASERTRAHLUNG TRITT AUS. WENN DECKEL GEÖFFNET UND WENN SICHERHEITSVERRIEGELLUNG ÜBERBRÜCKT IST. NICHT DEM STRAHL AUSSETZEN!
VARNING	OSYNUG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRR ÄR URKOPPLAD. STRÅLEN ÄR FARLIG.
ADVARSEL	USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGA UDSÆTELSE FOR STRÅLING.
VARO!	AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTINA NÄKYMÄTTÖMÄLLE LASERSÄTEIL YLLE. ÄLÄ KATSO SÄTEESEEN.

Laser Diode Properties

Materials: Ga-Al-As
Wavelength: 755-815 nm (25ºC)
Laser Output: Continuous Wave max. 0.7mW



CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

Congratulations on your purchase of the ROKSAN Caspian Integrated CD Player. This CD Player is designed and manufactured to the highest specification and rigorously tested to offer you many years of trouble-free pleasure.

Your Caspian Integrated CD Player is at the heart of your hi-fi system. Its correct installation, set-up and operation will have a profound influence on the sonic performance of the entire hi-fi installation.

Please read the contents of this manual thoroughly. It will help you to understand your hi-fi equipment better and enhance your listening pleasure.

This manual is divided into the following sections:

- Safety Instructions *(Accompanying card)*
- Saftey Certification
- Introduction
- Cautions
- Installation
- Setup
- Operation
- Troubleshooting
- Guarantee
- Notes
- Specifications

UNPACKING

Included in the packing of your Caspian Integrated CD Player you will find:

- One mains lead fitted with the correct mains power plug for your country
- One Caspian system remote handset and batteries
- One information pack and warranty card

After removing these items please retain **all** packing materials. Correct packing is necessary for transportation of your Caspian Integrated CD Player.

MAINTENANCE

After disconnecting the amplifier from the mains supply, the cabinet and front panel may be cleaned with a lightly dampened soft cloth or chamois leather. **Avoid using abrasives or solvents.**

EU DIRECTIVES

This product is designed to comply with the legal provisions of EU Directives 89/3336/EC and 72/23/EC. The standards which have been applied are those which were in force at the time of the introduction of this product.

This product bears the CE mark.

CE

This product is compliant to EN 60065.

This product must be earthed. Please ensure that other equipment connected to it is earthed according to the manufacturer's instructions.

AC MAINS SUPPLY

Your Caspian Integrated CD Player is set to operate from a fixed supply voltage which is marked on a label next to the mains input plug. Before connecting the mains lead please check that your mains supply corresponds to this label as below:

230V Products	.....Voltage Range: 220V – 240V
115V Products	.....Voltage Range: 100V – 120V
100V Products	.....Voltage Range: 90V – 110V

The mains lead supplied with this product has an IEC mains socket which plugs into the IEC connector on the unit's rear panel. The other end is normally attached to the appropriate mains plug for your country. In the UK this is the standard UK13A plug.

This plug should ordinarily not be removed from the lead. If you *do* remove it, please dispose of it safely so that it cannot be plugged into a mains socket whilst in a potentially dangerous condition. We suggest that you obtain from your dealer a complete replacement lead.

Should you move to another area where either the mains voltage or the mains plugs are different from those as supplied with your CD Player, please contact the appointed ROKSAN distributor for assistance.

Please observe correct mains polarity at all times.
The CD Player mains fuses are located on the rear panel next to the IEC mains connector. These must only be replaced by the fuse type and rating as described on the fuse rating label on the rear panel of the unit.

If the equipment is likely to be unused for some time, unplug it from the mains supply.

GENERAL CAUTIONS

FCC WARNING
This equipment may generate or use Radio Frequency energy. The user may lose the right to operate this equipment if unauthorised modifications are made.

INTERFERENCE
Properly installed, this unit should not cause harmful interference to radio communications, There is, however, no guarantee that such interference will not occur in a specific installation. If interference arises (which you can determine by switching the unit off and on) you could try to remedy this problem by the following:

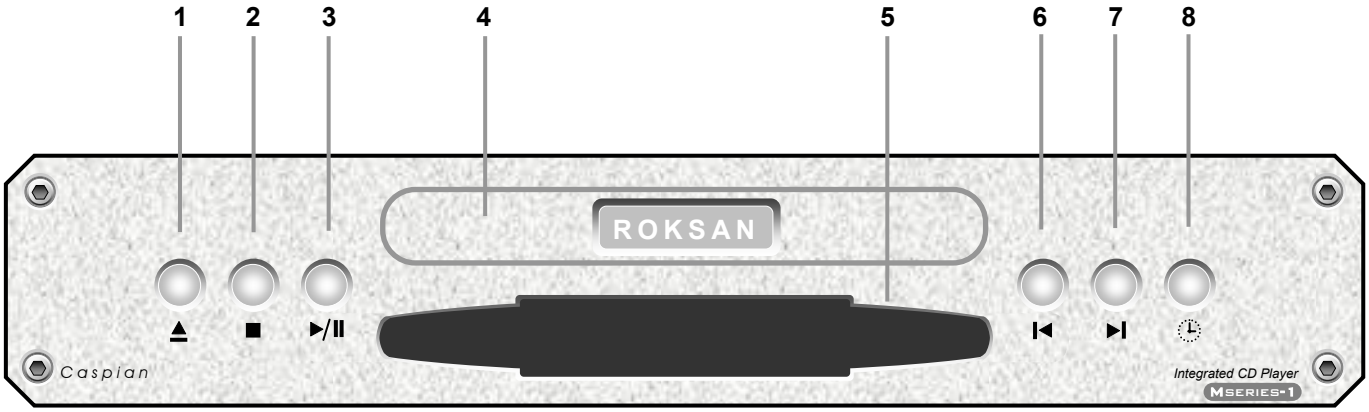
- Re-orient or re-locate the receiving antenna
- Increase the distance between the CD Player and receiver
- Connect the unit to a different mains circuit from that of the receiver
- Consult your ROKSAN appointed dealer or an experienced Radio/TV technician for help and advice

LOCATION
Your Caspian Integrated CD Player should be located in a well ventilated area and kept away from sources of heat, dust, humidity and direct sunlight.

The CD Player may be positioned either as a free standing unit or alongside another audio/video product. Never place the CD Player on carpet or any surface likely to hinder normal ventilation.
Never allow liquids or other objects to fall into the unit.

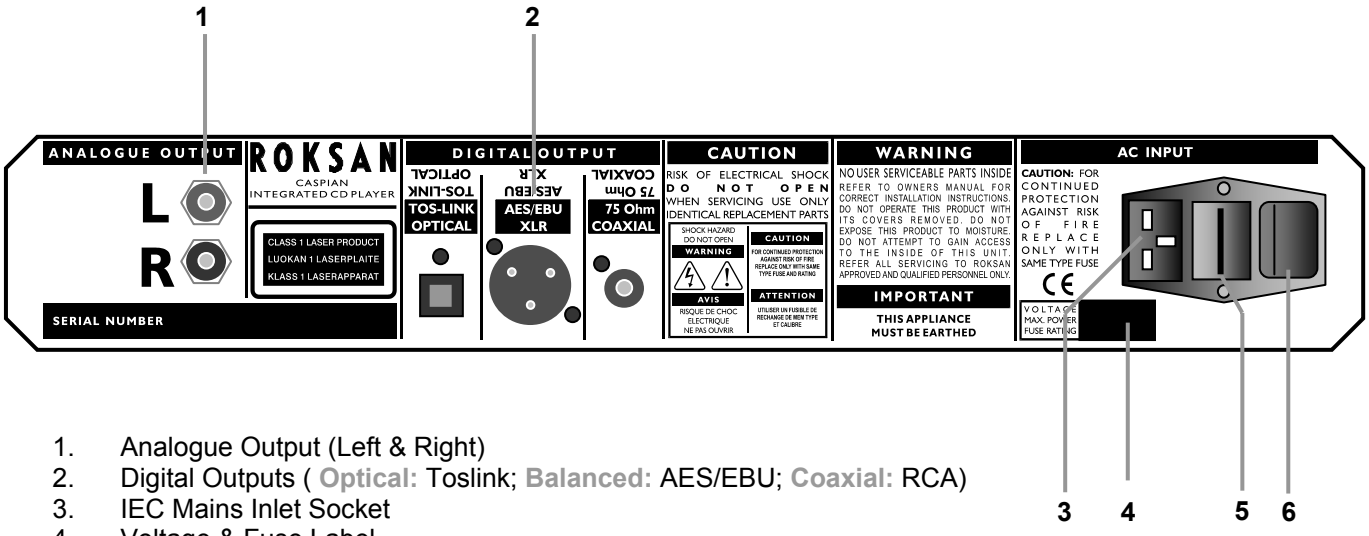
This unit contains no user serviceable parts. **Do Not remove any panels or attempt to service it yourself. Unauthorised servicing will void the warranty.**

ROKSAN Caspian Integrated CD Player- Front Panel View



1. Open / Close Button
2. Stop Button
3. Play / Pause Button
4. Disc Tray Mechanism Door
5. FL Display
6. Track Back Button
7. Track Forward Button
8. Display Time Button

ROKSAN Caspian Integrated CD Player - Rear Panel View



1. Analogue Output (Left & Right)
2. Digital Outputs (**Optical:** Toslink; **Balanced:** AES/EBU; **Coaxial:** RCA)
3. IEC Mains Inlet Socket
4. Voltage & Fuse Label
5. AC Mains Fuse Holder
6. AC Mains Power Switch

CONNECTING MAINS POWER

*Please refer to the rear panel view on page **5.***The moulded IEC connector of the supplied mains lead should be plugged into the socket **(3)** on the rear of the unit first and then plugged into the mains supply. The Mains power switch **(6)** is on the rear panel of the CD Player. This switch is normally left on. If the unit is likely to be unattended for a long period, switch it off and unplug the mains lead from the wall.

SIGNAL CONNECTIONS

ANALOGUE OUTPUT:

The Analogue Output **(1)** uses Gold plated RCA Phono sockets and should be connected to the CD or LINE input of your Preamplifier or Amplifier.
The connection is: **Right Channel** – **Red**; **Left Channel** – **White** or **Black**.

DIGITAL OUTPUT:

The Digital Output **(2)** uses a Gold plated RCA Phono socket for Coaxial SPDIFand Toslink for Optical and XLR for Balanced AES/EBU output. Any of these could be connected to a corresponding input of an amplifier with a digital input, or to an outboard Digital to Analogue converter (DAC).

IMPORTANT NOTE: For optimum performance it is recommended to use high quality inter-connect cables such as ROKSAN HDC-02A High Definition Analogue Cable and HDC-01D High Definition Coaxial Digital Cable.

*Please refer to the rear panel view on page **5.***

SWITCHING ON

The Mains power switch **(6)** is located on the rear panel of the CD Player. This switch should be left ON for normal operation. If unattended for a long period, the Mains power should be switched OFF and the lead disconnected from the power supply.

When switched ON from the rear panel, your Caspian CD Player FL Display will illuminate.

USING THE CONTROLS

*Please refer to the front panel view on page **5.***

LOADING A DISC

Press the Open/Close Button **(1)** once to open the disc loading tray (Display will indicate: **open**). Carefully load a disc into the tray recess with the label side up. Press the button again to close the tray.

Note: Never load a disc until the drawer has opened fully, or try to close the drawer until you are sure that the disc is properly seated in the holder recess.

Warped discs should *never* be played.

The drawer should only be opened using the front panel control. Under no circumstances should you attempt to open manually.

If a disc is not inserted or if the disc is damaged or inserted upside down, the CD player will remain inoperative (Display will indicate: **no disc**).

When a disc has been loaded, your Caspian CD Player will briefly spin the disc while it studies the data encoded on it. The disc will then stop and the display will indicate the number of tracks on the disc and the total play time.

To commence playing a disc, press Play/Pause Button **(3)** once. The disc will play from the beginning.
Press the Play/Pause button **(3)** a second time to pause the disc whilst it is playing. Pressing the button again will resume playback from the point at which Pause mode was entered. In Pause mode, the disc continues spinning and the laser will still be operational but locked. Please keep the CD player in Pause mode no longer than strictly necessary.

Press the Track Forward Button **(7)** to go to the next track on the disc. Pressing the Track Back Button **(6)** will take you to the previous track.

***** When the disc is playing, press the Track Back Button once to take you to the beginning of the current track and a second time to take you to the start of the previous track.

In Play mode press the Track Forward Button **(7)** to take you forward to the start of the next track.

Once the procedure is complete the disc will commence playing from the selected track.

When a disc is first loaded, you can use these buttons to select your desired track. Having done so, press the Play/Pause Button and your disc will commence playing from the selected track.

You may select a track when Pause is engaged. In this case, the disc will revert to Pause after the procedure is complete and you will have to press Play/Pause Button to continue playing the disc.

DISPLAY

Pressing the Time Button **(8)** on the front panel repeatedly will cycle the display through the following modes:

Normal

Display
Indicates track No. and how long it has been playing.

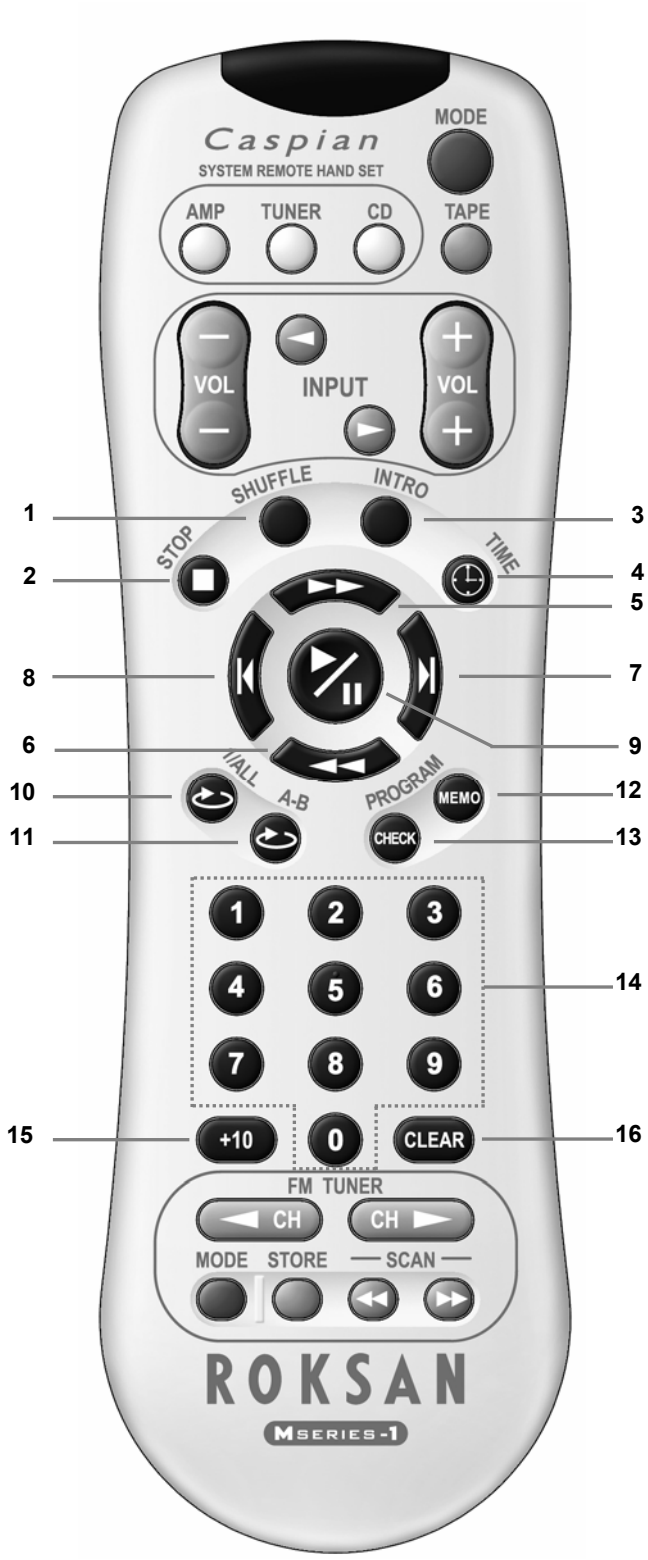
First Press

Display
Indicates track No. and remaining time on the track.

Second Press

Display
Indicates number of tracks and remaining time on the disc.

Your CD player is supplied with a Caspian **M series-1** System Remote Handset.
The Remote Control Handset is powered by two 1.5V **AAA** batteries (supplied). ***When inserting the batteries observe the correct polarity.***
The handset duplicates all front panel controls and contains several additional features.



1	RANDOM PLAY KEY
2	STOP
3	INTRO PLAY KEY
4	DISPLAY TIME KEY
5	FAST FORWARD
6	FAST BACK
7	NEXT TRACK
8	BACK TRACK
9	PLAY / PAUSE
10	REPEAT ONE / ALL
11	REPEAT A - B
12	MEMORY PROGRAMME
13	MEMORY CHECK
14	NUMERIC KEYS
15	+10 KEY
16	CLEAR

REPEAT

There are three repeat functions available on your CD player:

1. To repeat all tracks on the disc press Repeat Button **(10)** 1/ALL. The display will show **'REPEAT (ALL)'**.
2. To repeat one track press Repeat Button **(10)** 1/ALL twice. The display will show **'REPEAT (ONE)'**.
3. To repeat a section:
   - Press PLAY to start playing the disc
   - Go to the track at the start of the section
   - Designate the beginning of the section by pressing Repeat Button **(11)** A-B. The display will show **'REPEAT (A)'**
   - Go to the track at the end of the section
   - Designate the beginning of the section by pressing Repeat Button **(11)** A-B. The display will show **'REPEAT (B)'**

   The section selected will play repeatedly until pressing Repeat Button **(11)** A-B again to stop section repeat.

MEMORY

Pressing the Memory Button **(12)** lets you select specific tracks and play them in any order. **Programming must be performed in STOP mode.**

To programme a sequence:

1 Press Memory Button **(12)** on the handset.

Display
The word **MEMORY** *lights and the display flashes track **1** and step **1** ready for programming.*

2 Select a track from the handset, using the Track Forward, Track Back Buttons **(7, 8)**, or via the Numeric Keys **(14)**. *(For example track **3**)*

Display
*Shows **3** the selected track and step **2** ready for next track to be programmed.*

3 Select the next desired track. *(For example track **9**)*

Display
*Shows **9** the selected track and step **3** ready for next track to be programmed.*

4 When you have assembled your programme, press the Play Button to start Programme Play.

- You can select a track more than once to be played in the programme.
- You can press stop and the programme will still remain.
- You can check and change programmed tracks in stop mode by pressing the Check Button **(13)** to march through the programme steps and use the Clear Button **(16)** to delete a track and then select a new track in its place if you wish.

TO CANCEL A PROGRAMME

Press the Clear Button **(16)** in stop mode and hold for 3 seconds to clear all programmed tracks.

SHUFFLE

Pressing the Shuffle Button **(1)** will automatically select the tracks on the disc at random and play them one after the other until all the tracks have been played. **Random play is performed in STOP mode.**

INTRO

Pressing the Intro Button **(3)** will only play the first 10 seconds of each track as a taster. This button toggles between ordinary play mode and intro play mode.

TROUBLESHOOTING *C a s p i a n Integrated CD Player*

If you suspect your ROKSAN Caspian CD Player is not operating properly, first check all the connections carefully. Pay particular attention to input and output connections. Phono plugs should be fully inserted- a frequent cause of problems is that Phono plug surrounds do not make proper contact. Below are some commonly encountered problems with suggestions for possible cure. The list is not exhaustive: If you have any unresolved problems, please consult your appointed ROKSAN dealer or distributor.

SYMPTOM	LIKELY CAUSE	SUGGESTED REMEDY
The disc tray will not close when a disc is inserted	Disc not placed properly in tray Disc is warped	Re-place disc properly Discard disc
Disc inserts, display does not show the number of tracks and playing time	Disc inserted upside down Disc is dirty or scratched Condensation on the laser lens Dirt on the laser lens	Re-insert disc Clean disc, discard scratched disc Let CD player warm up and dry out lens Refer to appointed dealer or service centre **DO NOT** use CD lens cleaners
Skipping & mistracking	Excessive vibration Disc is dirty or scratched	Ensure player is stable and vibration-free Clean disc, discard scratched disc
Programme play inoperative	Programming accidentally erased	Re-programme memory
Excessive hum	Connection loose, cable faulty	Re-connect plugs, change interconnect
One channel inoperative	Interconnect or amplifier faulty	Change lead, try another line input on amp
Remote handset operation erratic or not working	Batteries weak or wrongly inserted Handset signal path is obstructed Handset transmission angle too wide Room lighting/sunlight excessive	Replace batteries, observe polarity Remove obstruction, move handset Operate handset in front of CD Player Darken room

There are no user-serviceable parts inside your Caspian CD Player. If a fault should develope, refer any servicing to your appointed ROKSAN dealer, distributor or ROKSAN approved service agent.

Your ROKSAN Caspian CD Player is guaranteed against any defect in materials and workmanship for a period of **two years** from the date of purchase.
This guarantee only becomes effective if the warranty card is validated by the ROKSAN retailer from whom the equipment was purchased and returned to ROKSAN within **28 days** of purchase.
This guarantee excludes:

1. Damage caused due to accident, misuse, neglect and incorrect installation, adjustment or repair.
2. Liability for damage or loss during transit from the retailer or purchaser to ROKSAN or its authorised distributor for the purposes of repair or inspection.

Carriage costs to ROKSAN shall be borne by the consignor.

All claims under this guarantee must be made through an authorised ROKSAN retailer.

If equipment returned for repair to ROKSAN is found on inspection to comply with the product specification ROKSAN reserves the right to make a charge for examination and return carriage.
***Unauthorised servicing will void this guarantee**.*

Caspian CD Player M series-1	Serial Number: ……
Purchase Date	Year …… Month …….. Day ……..
ROKSAN Retailer	Name: …… Location: ……

Please keep a record for future reference

Operating System	CD digital audio system (CD, CD-*R*, CD-*RW*)
Frequency Response	20Hz – 20kHz ± 0.2dB
Harmonic Distortion	< 0.001% @ 0dB, 1kHz *(Typically 0.0005%)* < 0.006% @ -30dB, 1kHz < 0.01% @ 0dB, 20kHz
Intermodulation Distortion	< 0.001% @ 0dB *(Typically 0.0005%)*
S/N Ratio (IHF-A Wtd.)	105 dB
Wow & Flutter	Quartz precision
Channel Separation	>100 dB @ 1kHz >80 dB @ 20kHz
Output Voltage	1.9Vrms
Digital Outputs	75 Ohm Coaxial, RCA 110 Ohm Balanced AES/EBU, XLR Optical, Toslink
D/A Conversion	PCM1730E Advance Segment, Audio-Stereo DAC
Resolution/Sampling	24 bits / 192 kHz
Oscillation	3rd Overtone Oscillation
Crystal	Super precision, custom made
Jitter	<150 psec
Idle Pattern	<-115 dB
Stop band Rejection	<-78 dB
Power Supply	x2 high performance low noise toroidal transformers 10 fully regulated power rails
Power Source	100V – 120V 50Hz / 60Hz 220V – 240V 50Hz / 60Hz
Power Consumption	< 15 W
Dimension	432 x 330 x 70 (W x D x H) mm 432 x 330 x 80 (including feet)
Weight	9Kg